

Figure 1.

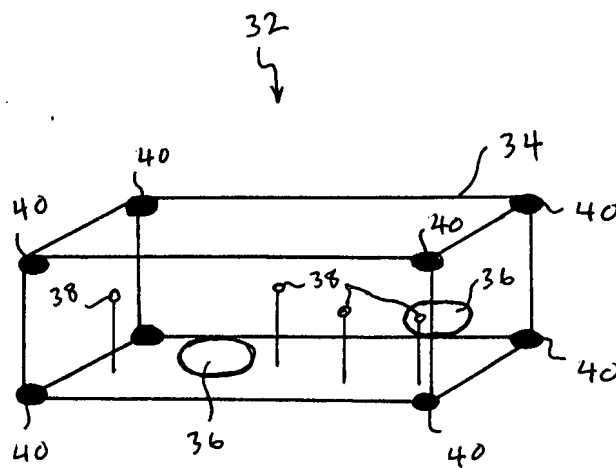


Figure 2.

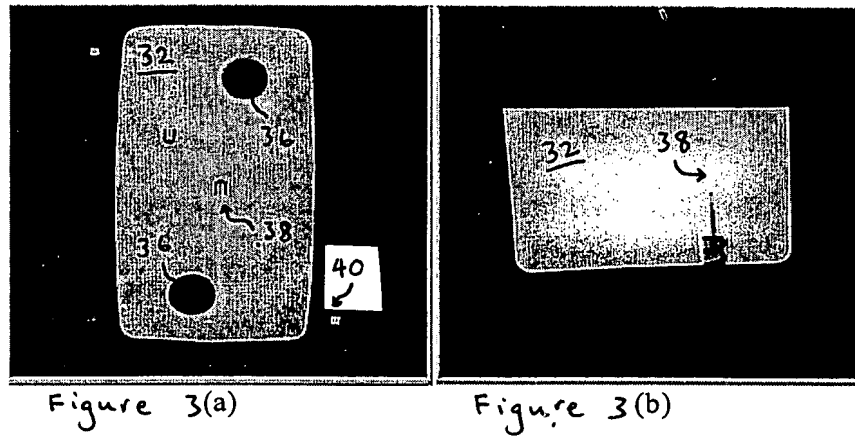


Figure 3

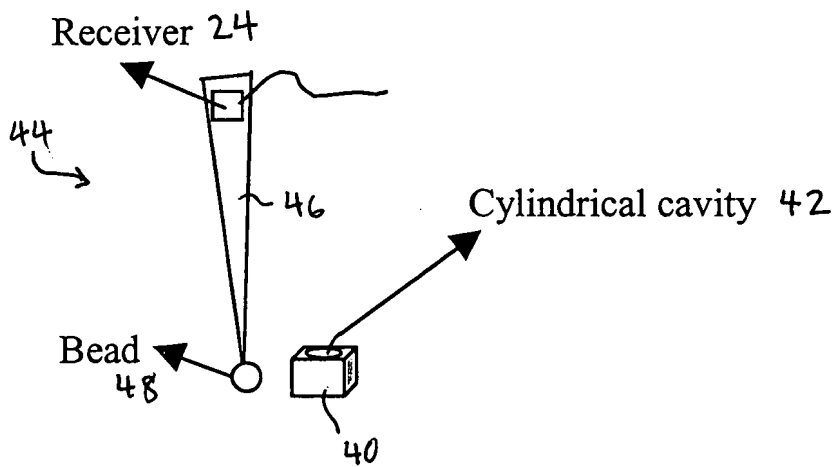


Figure 4.

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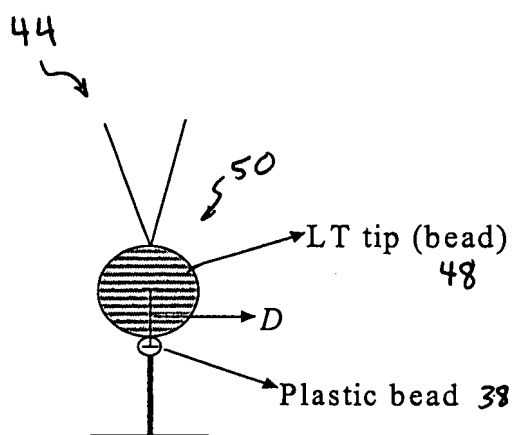


Figure 5

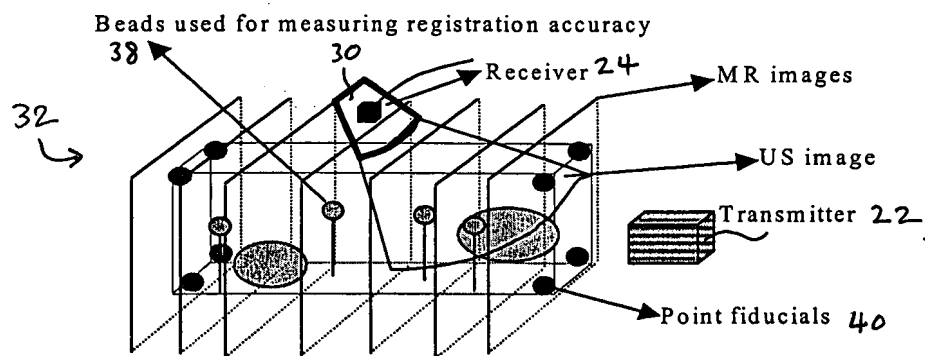


Figure 6

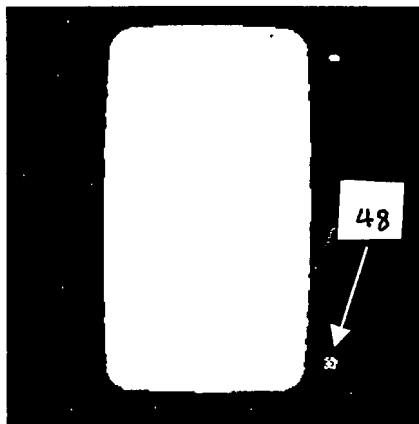


Figure 7(a)

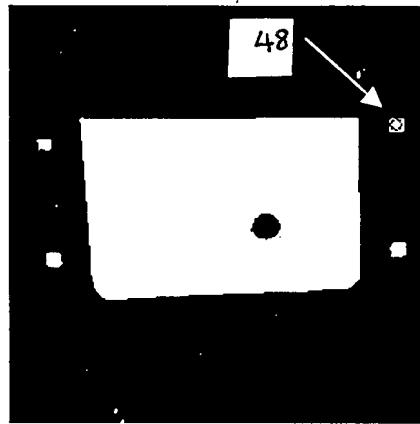


Figure 7(b)

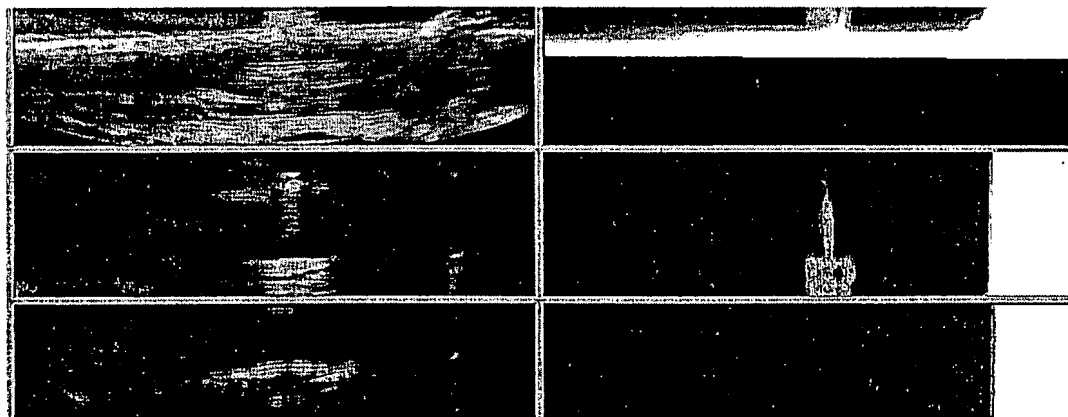


Figure 8(a)

Figure 8(b)

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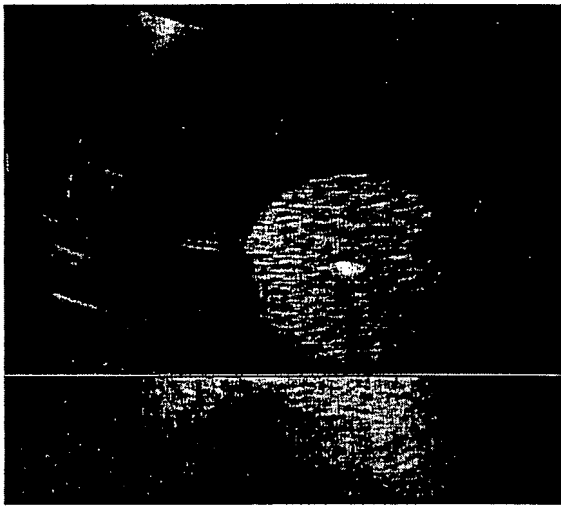


Figure 9(a)

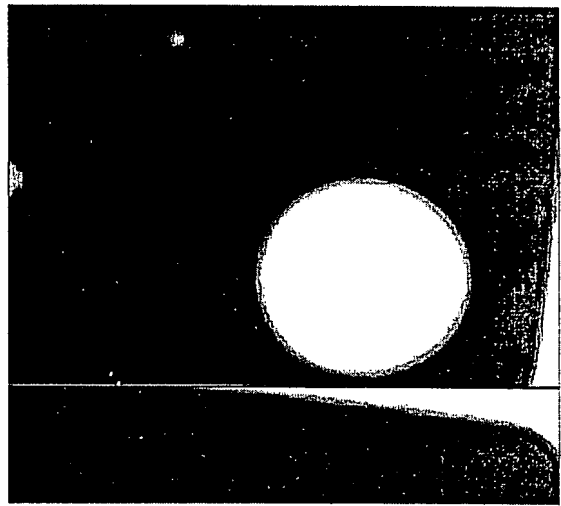


Figure 9(b)

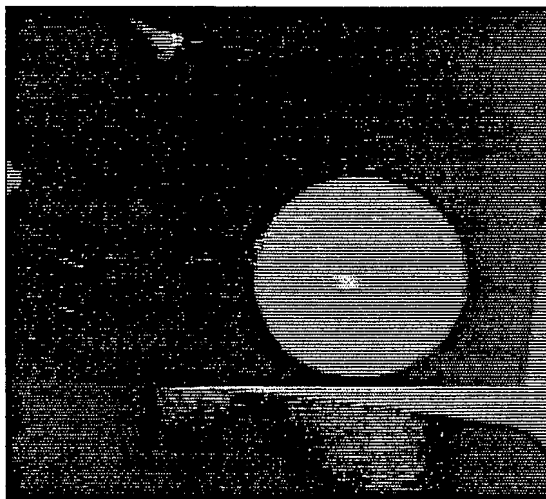


Figure 9(c)

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Table I.  $FRE_{MR-tran}$  and  $TRE_{MR-tran}$  for 12 different configurations of the phantom<sup>32</sup> and the transmitter<sup>22</sup>.

	$FRE_{MR-tran}$	$TRE_{MR-tran}$
mean (mm)	1.18	1.78
std (mm)	0.10	0.18
min (mm)	1.02	1.50
max (mm)	1.38	2.08

Figure 10(a)

Table II. Statistics of the difference  $D_{meas}-D_{true}$ .

	Bead 1	Bead 2	Bead 3	Bead 4
mean (mm)	-0.01	-0.26	0.03	-0.32
std (mm)	0.57	0.54	0.93	0.59
min (mm)	-0.92	-0.96	-1.55	-1.19
max (mm)	0.81	0.74	1.42	1.18

Figure 10(b)

Table III. Statistics of registration error  $TRE_{US-MR}$  between MR and US space.

	Bead at depth of 16.8 mm	Bead at depth of 29.9 mm	Bead at depth of 44.5 mm	Bead at depth of 62.9 mm
mean (mm)	3.56	3.00	2.24	2.00
std (mm)	1.82	1.30	0.78	0.75
min (mm)	0.16	0.85	1.03	0.64
max (mm)	8.49	6.24	3.59	3.73

Figure 10(c)

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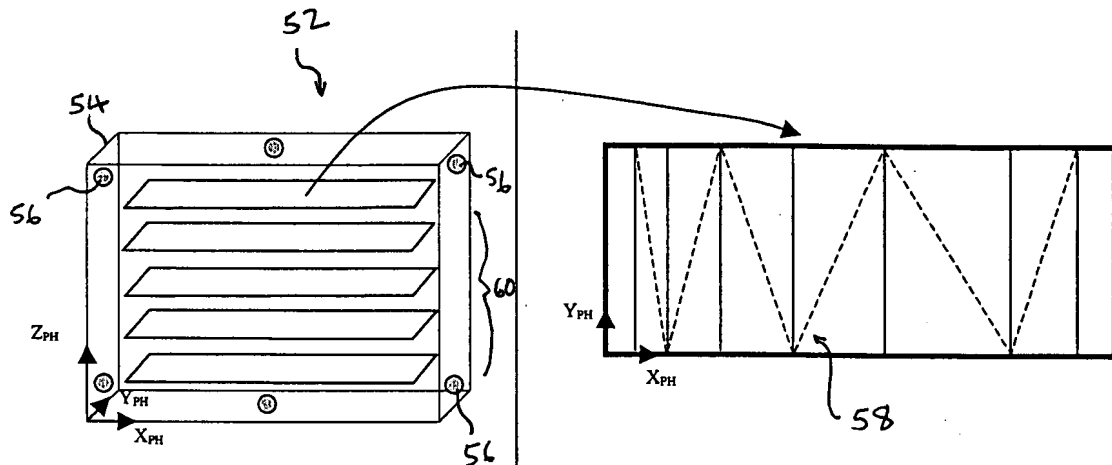


Figure 11(a)

Figure 11(b)

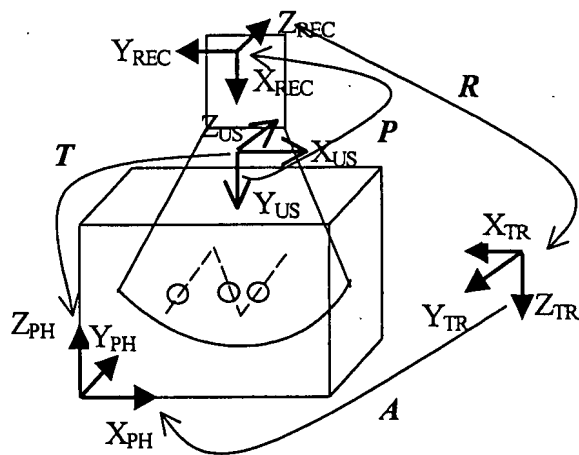


Figure 12